



## C-182 Checkout Questionnaire

Name \_\_\_\_\_ Date \_\_\_\_\_

Certificate and Ratings \_\_\_\_\_ Certificate# \_\_\_\_\_

Total Time \_\_\_\_\_ Instructor (*if applicable*) \_\_\_\_\_

### **Airspeeds**

1. What are the following V speeds in KIAS?

V<sub>r</sub> \_\_\_\_\_ V<sub>x</sub> \_\_\_\_\_ V<sub>y</sub> \_\_\_\_\_

V<sub>s</sub> \_\_\_\_\_ V<sub>so</sub> \_\_\_\_\_ V<sub>no</sub> \_\_\_\_\_

V<sub>ne</sub> \_\_\_\_\_ V<sub>a</sub> \_\_\_\_\_ V<sub>fe</sub> \_\_\_\_\_

2. What are the best glide airspeeds for the airplane? \_\_\_\_\_  
\_\_\_\_\_

3. Does V<sub>a</sub> change with a change in aircraft weight? If so, why is this important? \_\_\_\_\_  
\_\_\_\_\_

4. List the approach speeds for full flaps, partial flaps, and no flaps. \_\_\_\_\_  
\_\_\_\_\_

## Emergency Procedures

5. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure just after takeoff. (*below 500 ft AGL*) \_\_\_\_\_

\_\_\_\_\_

6. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while in the traffic pattern. (*1000 ft AGL*) \_\_\_\_\_

\_\_\_\_\_

7. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while at cruise. (*above 3000 ft AGL*) \_\_\_\_\_

\_\_\_\_\_

8. Describe the procedure to perform for a forced landing. \_\_\_\_\_

\_\_\_\_\_

9. Describe how and when you would execute an emergency descent. \_\_\_\_\_

\_\_\_\_\_

10. Describe the "Engine Fire In Flight" checklist. \_\_\_\_\_

\_\_\_\_\_

11. What action should be taken if you experience low or high oil pressure? \_\_\_\_\_

\_\_\_\_\_

12. What action should be taken if the ammeter indicates excessive or overcharge during flight? \_\_\_\_\_

\_\_\_\_\_

13. What action should be taken if you experience partial power loss? \_\_\_\_\_

\_\_\_\_\_

14. Describe what action to take in the event of an electrical fire in flight. \_\_\_\_\_

\_\_\_\_\_

15. Describe the “Engine Fire During Start” checklist. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Normal Procedures

16. List the procedure to follow for a normal engine start. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

17. Explain the procedure for starting a cold engine? Hot engine? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. What is vapor lock and how do you prevent it?(*fuel injected model*) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. When do we lean the mixture? Why? Describe the procedure(s). \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. What is shock cooling and how can you prevent it during a descent? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Describe the procedure for the cowl flaps in the following situations:  
A. Start-up/Taxi/Takeoff/Climb: \_\_\_\_\_  
B. Cruise/Descent/Landing: \_\_\_\_\_

22. When should the carburetor heat be used? Why?(*carburetor model*) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

23. What position should the fuel pump switch be in prior to takeoff and why?(*fuel injected model*) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Explain the procedures and list the appropriate speeds for a short field takeoff and landing. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Performance

25. Given: Departing KRYYY with a temperature of 15°C at maximum takeoff weight. Determine the takeoff distance over a 50 foot obstacle using the SHORT FIELD T/O technique. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

26. What is the endurance at 8,000 feet and standard temperature at 65% power? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

27. What is the maximum crosswind component for the airplane? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Weight and Balance

28. What is maximum takeoff weight? \_\_\_\_\_

29. Determine weight and balance

	Weight	Arm	Moment
BEW	_____		
Pilot & Pass	_____		
Rear Occupants	_____		
Baggage A	_____		
Baggage B	_____		
Zero Fuel Weight	_____		
Fuel @ 6 LBS/GAL	_____		
Ramp Weight	_____		
Taxi Fuel Allowance	_____		
Takeoff Weight	_____		
CG Location	_____		

30. Is the aircraft within weight and CG limits? If not, show how we can be with limits. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

31. What aircraft categories are the aircraft certified under? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

32. What is the maximum allowable weight in baggage compartment A? B? Total? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Systems

33. What type of engine does the aircraft have? (*specify make and model*) \_\_\_\_\_  
\_\_\_\_\_

34. How many engine driven magnetos does the plane have? What are they used for? \_\_\_\_\_  
\_\_\_\_\_

35. What are cowl flaps and what are they used for? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

36. Describe the propeller. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

37. What is the governor and how does it regulate pitch? \_\_\_\_\_  
\_\_\_\_\_

38. With respect to throttle, propeller, and mixture, what is the proper procedure for:

A. An increase in power: \_\_\_\_\_

B. A decrease in power: \_\_\_\_\_

39. What is the total fuel capacity? What is the total usable? \_\_\_\_\_  
\_\_\_\_\_

40. What types of fuels are approved for the aircraft? \_\_\_\_\_  
\_\_\_\_\_

41. How many fuel drains does the fuel system have? Where are they located? \_\_\_\_\_  
\_\_\_\_\_

42. How many positions does the fuel selector have? What are they? \_\_\_\_\_

\_\_\_\_\_

43. How many engine driven vacuum pumps does the airplane have? \_\_\_\_\_

\_\_\_\_\_

44. What is the total oil capacity? What is the minimum capacity? \_\_\_\_\_

\_\_\_\_\_

45. Does the oil level ever fluctuate? What does the aircraft normally operate at? \_\_\_\_\_

\_\_\_\_\_

46. Describe the electrical system. \_\_\_\_\_

\_\_\_\_\_

47. What is the voltage of the battery? Where is the battery located in the aircraft? \_\_\_\_\_

\_\_\_\_\_

48. What has happened when the low voltage light illuminates? \_\_\_\_\_

\_\_\_\_\_

49. How can you attempt to remedy a low or over-voltage condition? \_\_\_\_\_

\_\_\_\_\_

50. Does the aircraft have an alternate static source? If so, where is it, and how do you activate it? \_\_\_\_\_

\_\_\_\_\_

51. Describe the flaps. How are they used? What are the settings? What are the flap limitations? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Stall and Spin Awareness

52. What is a stall? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

53. Describe the procedures for a recovery from the appropriate stall.

Power-Off: \_\_\_\_\_  
\_\_\_\_\_

Power-On: \_\_\_\_\_  
\_\_\_\_\_

54. What is an accelerated stall? How do you recover? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

55. What is a spin? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

56. What is the spin recovery procedure for this airplane? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

57. Why is it important to recover quickly and smoothly from a spin? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

58. Explain what will happen to an aircraft in a stall/spin situation if the CG is too far aft? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_